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Reversible image watermarking

A van Leeut, M van der Veen, F ... - ..., 2003. ICIP 2003. ..., 2003 - IEEE Explore. IEEE.org
... In the decoder the **watermarked** signal y is demultiplexed and the **watermark** data, the overhead information and the error data are extracted ... In our reversible **watermarking** technique, the **mapping** function CQ controls the perceptual distortion of the **watermarked** signal, and ...

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[berkeley.edu](#) (PDF)

Robust hash functions for digital watermarking

J Fridrich, M Goljan - International Conference on Information ..., 2000 - IEEE Explore. IEEE.org
... Secure oblivious **watermarking** of videos for fingerprinting or authentication requires **watermarks** that depend on each frame. Indeed, one **watermark** pattern inserted into each frame would lead to a very vulnerable **watermarking** scheme with a serious security **gap**. ...

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[emory.edu](#) (PDF)

[PDF] Information-theoretic analysis of watermarking

P Moulin, JA O'Sullivan - IEEE INTERNATIONAL CONFERENCE ON ..., 2000 - Citeseer
... We are primarily interested in transparent **watermarking** applications, where D is small. ... Codewords $\{U_N(m), m \in M\}$ are randomly generated from the distribution $p(u)$, and **watermarked** data are generated from the ... For any **watermarking** game subject to distortions $(D, ...$

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[PDF] Redefining the Limits of the Coastal Zone: Bridging the Gap Between Land and Sea Using Remote Sensing, GIS, and the Internet

SD King, DR Green - 2001 - Citeseer
... **water mark**), and secondly, a lack of integrated data sets about the whole coastal ... fill this **gap** if it were used more effectively, from satellite imagery for large scale **mapping** and context setting, to smaller scale but more detailed imagery from aircraft for specific site studies. ...

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[psu.edu](#) (PDF)

Modified patchwork algorithm: A novel audio watermarking scheme

IK Yeo, HJ Kim - IEEE Transactions on Speech and Audio ..., 2003 - IEEE Explore. IEEE.org
... The proposed algorithm in this paper inserts **watermarks** in the frequency domain. ... 1) **Map** the secret key and **watermark** to the seed of random number generator and then generate the index sets ... 4) Compare with the threshold and decide that **water- mark** is embedded if ...

Cited by 24 - Related articles - All 3 versions

[PDF] Provably robust digital watermarking

B Chen, GW Wornell - Proceedings of SPIE: Multimedia Systems and ..., 1999 - Citeseer
... processes including any keys, can remove spread spectrum and LBM embedded **watermarks** and improve ... In contrast, to remove a **watermark** embedded with QIM methods (including STDM and earlier ... In the case of **watermarking**, the maximization (14) is subject to a distortion ...

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National Park vegetation mapping using multitemporal Landsat 7 data and a decision tree classifier

EC Brown de Colstoun, MH Story, C Thompson, ... - Remote sensing of ..., 2003 - Elsevier
... Fig. 2. Location **map** of the Delaware Water **Gap** National Recreation Area. View Within Article. ... The camera runs a script that queries the GPS unit for the time/data and position. The script will use that information to place a "**watermark**" on to a digital photo. ...

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The role of information theory in watermarking and its application to image watermarking* 1

P Moulin - Signal Processing, 2001 - Elsevier
... 1. The **watermark** communication problem. ... In blind **watermarking** (public **watermarking**) applications, S, N is not part of the key, so the decoder does not know the ... The information hider passes S, N, K, N , and the message M through a function, producing **watermarked** data X, N

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[PDF] Design and analysis of digital watermarking, information embedding, and data hiding systems

B Chen - 2000 - mit.dspace.org
... and manipulated, and authentication of, or detection of tampering with, multimedia signals is another application of digital **watermarking** methods [24]. So-called "fragile" **watermarks** ... detecting tampering. Alternatively, one could embed a robust **watermark**, a digital signal- ...

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[dspace.org](#) (PDF)

[PDF] Capacity-security analysis of data hiding technologies

S Voloshynovskiy, T Pun - IEEE Proc. of Conf. on Multimedia and Expo. ..., 2002 - Citeseer
... The particular stochastic models of **watermarks** depend on four main factors: the statistics of ... In the case of robust **watermarking**, the attacker assumes that the image contains some ... We consider two **watermark** detection problems for the two **watermark** models considered above. ...

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[High capacity reversible data embedding and content authentication](#)

[mc.gr](#) [PDF]

J Tian - 2003 IEEE International Conference on Acoustics, ... 2003 - [ieeexplore.ieee.org](#)
HIGH CAPACITY REVERSIBLE DATA EMBEDDING AND CONTENT AUTHENTICATION Jun
Tian ... ABSTRACT In this paper we present a high capacity reversible data embedding algorithm.
It serves for the purposes of both self authentication and reversible data embedding. ...

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J Tian - Proceedings of workshop on multimedia and security, 2002 - [digimarc.com](#)
... Capacity bounds and constructions for reversible data hiding. In Proc. ... [7] J. Tian. Wavelet-based
reversible watermarking for authentication. ... 2002. [8] CD Vleeschouwer, JF Delaigle, and B. Macq.
Circular interpretation of histogram for reversible watermarking. In Proc. ...

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[\[PDF\] Circular interpretation of bijective transformations in lossless watermarking for media asset management](#)

[163.17.9.240](#) [PDF]

C De Vleeschouwer, JF Delaigle, B. ... - IEEE Transactions on ... 2003 - 163.17.9.240
... reversible algorithm by circular interpretation of bijective transformations. ... The relative orientation
of the histograms of two groups of pixels conveys one bit of information. ... 2000. [17] W. Bender,
D. Gruhl, N. Morimoto, and A. Lu, "Techniques for data hiding," IBM Syst. J., vol. ...

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[Reversible watermark using difference expansion of triplets](#)

[digimarc.com](#) [PDF]

Amr Alattar - ... Conference on Image Processing, 2003. ICIP ... 2003 - [ieeexplore.ieee.org](#)
... Since the watermark is completely reversible, the original image can be recovered exactly. ... to
hide pairs of bits: which allows the algorithm to hide a large amount of data. ... components of the
image and across all spectral components to maximize the hiding capacity Simulation ...

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[\[PDF\] A content-based image authentication system with lossless data hiding](#)

[berkeley.edu](#) [PDF]

D Zou, CW Wu, G Xuan, YO Shi - IEEE International ... 2003 - [www-video.eecs.berkeley.edu](#)
... The data hiding method we use will be based on the circular histogram algorithm ... comparing the
original image with the image after the hidden data has been ... Vleeschouwer, JF Delaigle, B. Macq,
"Circular Interpretation of Histogram for Reversible Watermarking", Proceedings ...

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G Xuan, J Chen, J Zhu ... - Proc of Int Conf on Diagnostic Imaging and ... 2002 - [Citeseer](#)
... high-capacity data embedding for image watermarking based on integer wavelet and histogram
adjustment is ... After extracting data embedded, the original image should be reversible from
watermarked image ... Obviously most of current data hiding algorithms are not distortionless ...

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[Distortionless Digital Watermarking Based on Integer Wavelet \[J\]](#)

C Jidong, X Guorong - Computer Engineering, 2003 - [en.cnki.com.cn](#)
... To obtain higher PSNR performance at the same time, two histogram-adjustment methods are
presented in this paper and ... of Electronic Science and Technology, University of Science and
Technology of China, Hefei 230027; The application of reversible data hiding in medical ...

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W Bender, W Eutera, D Gruhl, R ... - IBM SYSTEMS ... 2000 - [www-fr.watson.ibm.com](#)
... FJ Paiz S. Pogreb In an earlier paper, "Techniques for Data Hiding," the overall goals and
constraints of information-hiding problem space and a variety of approaches to information hiding
in image, audio, and text were described. ... 547 Applications for data hiding Page 2. ...

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F Petitcolas, R Anderson, M Kuhn - Information Hiding, 1998 - Springer
... 18]. Masking may also be used to avoid placing marks in places such as the large expanses
of pure colour found in cartoons; the colour histogram of such ... Echo hiding [26] relies on the fact
that we cannot perceive short echoes (say 1 ms) and embeds data into a cover ...

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[The Studies of Reversible Data Hiding for Spatial Domain Images](#)

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CC Lin - 1997 - [ethesis.lib.fcu.edu.tw](#)
... 5.2.3 Shifting histogram 7.3 Reversible data hiding based on shifting
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C De Vleeschouwer, JF Delaigle, B ... - IEEE Transactions on ... 2003 - 163.17.9.240
... Page 7. DE VLEESCHOUWER et al.: **CIRCULAR INTERPRETATION OF BIJECTIVE TRANSFORMATIONS** 103 (a) (b) Fig. 11. ... **reversible** algorithm by **circular interpretation** of bijective trans- formations. The **histograms** of groups of pixels are mapped to a circle. ...
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JB Feng, JC Lin, CS Tsai, YP Chu - International Journal of Network ... 2006 - Citeseer
... In order to enhance the robustness of the **reversible watermark- ing**, the embedding target is replaced by the **histogram** of a block. ... We introduce the Vleeschouwer et al.'s **circular interpretation** scheme [27] to work out the concept of this type. ...
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AM Alattar - IEEE Transactions on image Processing, 2004 - [ieeexplore.ieee.org](#)
... visual artifact. Vleeschouwer et al. [6] reduce the salt-and-pepper artifact in Macq's method by using a **circular interpretation** of biject- tive transformations of the **histogram** of the blocks used for the Patchwork. The capacity ...
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J Tian - Proceedings of workshop on multimedia and security, 2002 - digimarc.com
... of SPIE, pages 679-690, Jan. 2002. [8] CD Vleeschouwer, JF Delaigle, and B. Marq. **Circular interpretation of histogram for reversible watermarking**. In Proc. of IEEE 4th Workshop on Multimedia Signal Processing, Oct. 2001.
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Multilevel reversible data hiding based on histogram modification of difference images

CC Lin, WL Tai, CC Chang - Pattern Recognition, 2008 - Elsevier
... In 2003, De Vleeschouwer et al. [11] proposed a lossless **watermarking** algorithm that relies on **circular interpretation** of bijective ... possible image quality of a marked image at the same time, inspired by Ni et al.'s scheme [17] we explore the peak point of the **histogram** in pixel ...
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DM Thodi, JJ Rodriguez - IEEE Transactions on image ... 2007 - [ieeexplore.ieee.org](#)
... A very different approach was pro- posed by De Vleeschouwer et al. [5] based on the **circular in- terpretation** of the ... in [26], where data is embedded into the **histogram** bins. Theoretical analysis of **reversible watermarking** has been presented by Kalker and Willems in [15]. ...
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J Tian - ... of SPIE Sec. and Watermarking of Multimedia Cont. IV, 2002 - digimarc.com
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AM Alattar - ... Conference on Acoustics, Speech, and Signal ... 2004 - [ieeexplore.ieee.org](#)
... these requirements are often not available, and, furthermore, most **watermarking** algorithms often ... Therefore, a **reversible watermark** must be designed such that it can be removed to ... Several researchers have developed **reversible watermarks** [2]-[9]. Tian [8] used a difference ...
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M Awrangjeb, M Kankanhalli - Digital Watermarking, 2004 - Springer
... 2nd edn. Pearson Education International, Prentice Hall (2002) 446-448 12. Vleeschouwer, CD, Delaigle, JF, Macq, B.: **Circular Interpretation of Histogram for Reversible Watermarking**. In IEEE 4th Workshop Multimedia Signal Processing, (2001) 345-350 13. ...
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